## Listing of Claims

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- 1 1. (Previously Presented) A method for fabricating the shell for an in-the-ear 2 hearing apparatus comprising at least one component or structural feature, comprising:
- obtaining a digital representation of a portion of the ear canal and/or a portion of the outer ear;

creating a digital representation of a shell conforming to the digital representation of the ear canal and the outer ear as applicable, the step of creating a digital representation of a shell comprising creating a digital representation of an outer surface of the shell; and

adjusting the fit of the digital representation of the outer surface of the shell in the digital representation of the ear canal.

- 2. (Previously Presented) A method as set forth in claim 1, where the step of creating a digital representation of the shell comprises reducing the number of points in the digital representation of the shell.
- 3. (Previously Presented) A method as set forth in claim 1, where the step of adjusting the fit of the digital representation of the outer surface of the shell comprises expanding, reducing, tapering, or pivoting at least a portion of the digital representation of the shell.
- 4. (Previously Presented) A method as set forth in claim 1, where the step of adjusting the fit of the digital representation of the outer surface of the shell comprises dividing the shell into a plurality of segments and expanding, reducing, tapering, or pivoting one or more of the segments.

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- 1 5. (Previously Presented) A method as set forth in claim 1, where the step of adjusting the fit of the digital representation of the outer surface of the shell comprises compensating for anatomical irregularities in the outer ear or the ear canal.
- 1 6. (Previously Presented) A method as set forth in claim 1, where the step of 2 adjusting the fit of the digital representation of the outer surface of the shell comprises creating 3 a seamless interface between the shell and a faceplate.
- 7. (Previously Presented) A method as set forth in claim 1, where the step of creating a digital representation of the shell comprises creating a faceplate integral with the shell.
- 1 8. (Previously Presented) A method as set forth in claim 1, further comprising positioning one or more components or structural features in or on the shell.
  - 9. (Previously Presented) A method as set forth in claim 8, further comprising: reducing the volume of the shell incrementally until at least one of the components in the shell collides with another component or the internal wall of the shell; and enlarging the volume of the shell until the collision is alleviated.
- 1 10. (Previously Presented) A method as set forth in claim 1, further comprising superpositioning the shell in the ear canal and in the outer ear as applicable.

1 11. (Previously Presented) A method as set forth in claim 1, further comprising 2 simulating the insertion of the shell into the outer ear and the ear canal. 1 12. (Previously Presented) A method as set forth in claim 1, further comprising 2 fabricating a hearing instrument by direct manufacture. 1 13. (Previously Presented) A method as set forth in claim 1, further comprising: fabricating a hearing instrument from the digital representation of the shell; 2 3 fitting the instrument in the user's ear; generating an identical virtual apparatus; and 4 5 in response to the fitting of the instrument in the user's ear, further modifying at least a portion of the outer surface of the shell of the identical virtual apparatus to adjust the fit, 6 7 comfort, and/or performance of the apparatus. 1 14. (Previously Presented) A method as set forth in claim 1, further comprising: 2 generating an identical virtual apparatus; and 3 fabricating a hearing instrument. 1 15. (Previously Presented) A method as set forth in claim 1, further comprising 2 applying an identifier to the shell.

1	<ol><li>(Withdrawn) A method for optimizing a digital representation of an in-the-ear</li></ol>		
2	hearing apparatus comprising a shell and at least one component or structural		
3	feature, comprising:		
4	modifying at least one physical dimension of at least a portion of the digital		
5	representation the shell; and/or		
6	modifying the dimensions and/or position of at least one component or		
7	structural feature.		
1	17. (Previously Presented) An apparatus for fabricating the shell for an		
2	in-the-ear hearing instrument comprising at least one component or structura		
3	feature, comprising:		
4	a scanner for obtaining a digital representation of a portion of the ear canal and		
5	optionally a portion of the outer ear; and		
6	a processor for creating a digital representation of the shell that conforms to the		
7	scanned digital representation of the ear canal and the outer ear as applicable, the		
8	processor comprising		
9	means for creating a digital representation of the shell; and		
10	means for adjusting the fit of the digital representation of the outer surface of the shell		
11	in the digital representation of the ear canal.		
1	18. (Original) An apparatus as set forth in claim 17, where the processor		

comprises means for reducing the number of points in the digital representation of the shell.

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- 1 19. (Original) An apparatus as set forth in claim 17, where the processor comprises means for expanding, reducing, tapering, or pivoting at least a portion of the shell.
  - 20. (Original) An apparatus as set forth in claim 17, where the means modifying at least one physical dimension of at least a portion of the digital representation of the shell comprises means for dividing the shell into a plurality of segments and expanding, reducing, tapering, or pivoting one or more of the segments.
- 1 21. (Original) An apparatus as set forth in claim 17, further comprising means 2 for fabricating a hearing instrument by rapid prototyping or direct manufacture.
  - 22. (Previously Presented) A method as set forth in claim 1, where the step of adjusting the fit of the outer surface of the digital representation of the shell comprises modifying at least one physical dimension of the digital representation of the outer surface of the shell.
  - 23. (Previously Presented) A method as set forth in claim 1, where the step of adjusting the fit of the outer surface of the digital representation of the shell further comprises adjusting the fit of the outer surface of the digital representation of the shell in the digital representation of a portion of the outer ear.
- 1 24. (Previously Presented) A method as set forth in claim 8, further comprising 2 modifying the dimensions and/or position of at least one component or structural feature.

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l	25.	(Previously Presented)	An apparatus as set forth in claim 17, where the	
2	means for adjusting the fit of the outer surface of the shell comprises means for modifying a			
3	least one ph	ysical dimension of the digit	al representation of the outer surface of the shell.	

- 26. (Previously Presented) An apparatus as set forth in claim 17, where the means for adjusting the fit of the outer surface of the shell further comprises means for adjusting the fit of the outer surface of the digital representation of the shell in the digital representation of a portion of the outer ear.
- 27. (Previously Presented) An apparatus as set forth in claim 17, further comprising means for modifying the dimensions and/or position of at least one component or structural feature.
- 28. (Previously Presented) A method for adjusting a digital representation for fabricating an in-the-ear hearing apparatus, the apparatus comprising a shell, the shell comprising an outer surface, and at least one component or structural feature, comprising: adjusting the fit of the digital representation of the outer surface of the shell in a digital
- 5 representation of the ear canal and the outer ear as applicable.